

ABSTRACT OF THE DISCLOSURE

A method for creating time-stamped frames sent between computers includes receiving and generating a universal coordinated time reference signal using a global positioning system. Clocks independent of operating systems of the sending and receiving computer are synchronized with the reference signal. A test frame is created including a tag having reserved fields for transmit and receive time stamps. The transmit time stamp is inserted into the reserved transmit time stamp field, without intervention of the sending computers central processing unit, that corresponds to the time on the synchronized clock at the instant the test frame is sent. The test frame having the transmit time stamp is received by the receiving computer, and a receive time stamp is inserted into the reserved receive time stamp field corresponding to the time on the synchronized clock of the receiving computer when the test frame was received.

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